

Impaired Waterbody Status Report (as of 5/14/13)

Interior Waters

Water/TMDL Schedule Date	Chena River/June 30, 2010
Listed Impairments/Potential Concerns	Impairment: Sediment Concerns: Nutrients, Metals
Current Strategy	Sediment (with turbidity used as a surrogate for Sediment): delisting 2014
ADEC/EPA Staff	Chandra /, Jill (Delisting)
Background/Problems /Comments	Cars embedded for bank stabilization
Activity	9/08 Missy is exploring the type of turbidity sampling that should be done and sent to the lab. Examining previous data. Tetrattech completing initial draft Chena River Watershed SP12 information report. Conference call scheduled on 10/20 to discuss report.
	10/08- Conference call held; reviewed report. Need to re-evaluate petroleum data using petroleum numeric stds based on TAH/TAQH. See action on turbidity; deal with concerns after impairment issues.
	11/08 Working with contractor as to which waters to do TMDL; Petroleum doesn't look like it will be impaired. Submitted contract request
	12/08 Contract support approved; Budget and schedule being worked out.
	1/09 EPA/DEC meeting authorized Task 1&2 of contractor proposal
	3/09 – Missy spoke with TVWA president, e-mailed project manager. Marginal interest in collaborative effort.
	4/09 – Meetings to discuss sampling plans revised plans due from TT April 17 th ; sampling being conducted for petroleum week shortly; EPA request TT update watershed plan strategy to be able to discuss with community.
	5/09 Petroleum sampling complete; final “draft” of QAPP completed; Missy spoke with FNSB about meeting. Showed interest, Missy still to set up
	6/09 Final QAPP; Sampling conducted –
	7/09 Sampling for sediment continues; petroleum results clean
	9/09 Last sampling events in Sept. : Meeting with FBSN, TVA on Riparian Mgmt plan.
	12/09 Proposing to remove Petroleum impairment; Draft report should be completed early Jan. 10
	4/10 Draft final report removes petroleum impairment as the original listing (military) is operational. Draft report of summer's sampling still in progress emailed to TT on 7/23.
	1/4 Chena River SP12 Submitted to EPA HQ
	1/11 – Evaluating Watershed Characterization Report; ACWA grant request for re-sampling. (suspect we will have a grantee)
	2/11 – Chandra attended a TVWA board meeting and later met with the TVWA president; they expressed interest in collaborating and applying for the 2012

	ACWA grant to sample for sediment		
	4/11 – Chandra attended the Chena Slough Technical Committee meeting. The Fairbanks Soil and Water Conservation District is going to conduct Elodea survey and eradication experiment this summer. ADOT&PF is also planning a culvert replacement for fish passage on Chena Slough.		
	5/11 – Chandra met with the new TVWA executive director who will manage the grant award. TVWA is also interested in collaborating to do sheen surveys for the Noyes Slough TMDL.		
	6/11 – Grant being awarded for resampling. Data on sediment will likely be available for 2014 report.		
	10/11 – Sampling occurring;		
	4/12 – Sampling continuing; workgroup established to address overall water quality improvements in Chena River basin.		
	10/12 – Data shows that standards have been met. Expect to prepare delisting document for all 3 waters (2014 report). Green Infrastructure workgroup working to keep the watershed healthy.		
	1/13 – GI working group continues. Collaborating on funding opportunities to replace grey infrastructure with green. TVWA is organizing a Chena River Summit.		
	<u>5/13 – Chena Summit held, good community based attendance. ACWA grant awarded.</u> Streambank restoration class and project in June.		
Action Items	Request contractor support for development of turbidity monitoring strategy to comply with ADEC's turbidity listing methodology and QAPP	Cindy	11/17
	Set up meeting mid-Jan with contractor	Missy	1/8
	Missy to collaborate with other watershed planning efforts and possibly set up meeting of all players (FNSB, TVWA, EPA players) If no interest, EPA will take lead in setting up meeting for just sharing info.	Missy	7/30/09
	Missy to send TT NPDES facility and mining information; Missy to send EPA Wetlands contact to Jayne;	Missy	done
	TT to complete final sampling plans for Chena's & Noyes	TT	done
	Missy needs to provide data to TT for revised Watershed Characterization study – give to report.	Done	
	Sent draft results from summer testing to TT;	Jayne	Oct
	TT to review and make recommendations on next steps on watershed plan and SP 12/WQ10 measures (including whether NPDES MS4 Permit can be used as a restoration plan mechanism)	TT	Nov
	Set up conference call with TT to set up next steps	Jill	Winter
	<u>Draft delisting</u>	<u>Chandra</u>	<u>June 13</u>

Water/TMDL Schedule Date	Chena Slough/June 30, 2010
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Water/TMDL Schedule Date	Chena Slough/June 30, 2010		
Listed Impairments/Potential Concerns	Impairment: Sediment Concern: Nutrients, Metals		
Current Strategy	Sediment (with turbidity used as a surrogate for Sediment): delisting 2014		
ADEC/EPA Staff	Chandra/Jayne(SP12/Watershed Plan), Jill (delisting)		
Background/Problems /Comments	Citizen complained 30 cars in Slough		
Activity	09/08 Missy is exploring the type of turbidity sampling that should be done and sent to the lab. Examining previous data. Tetrattech completing initial draft Chena River Watershed (that includes Chena Slough) SP12 information report. Conference call scheduled on 10/20 to discuss report. DEC turbidity sampling conducted; evaluating results		
	10/08 Conference call held; reviewed report. Need to re-evaluate petroleum data using petroleum numeric standards based on TAH/TAQH. See action on turbidity; deal with concerns after impairment issues.		
	12/08 Contact approved; budget and schedule being worked out		
	4/11 Chandra attended Chena Slough Technical Committee meeting. The invasive aquatic Elodea is established. There is concern it will migrate downstream. There are also plans to replace a culvert for fish passage (but it won't happen this year).		
	1/09 to 15/13 See Chena River		
	Fairbanks Soil and Water Conservation District collected samples of invasive aquatic vegetation for analysis. Water samples were collected at the same time and analyzed for nutrients and fecal coliforms. Results were relatively low.		
	Elodea Steering Committee met twice in April and May 2013 to work on development of a management plan for Elodea infestation in Chena Slough.		
Action Items	Request contractor support for development of turbidity monitoring strategy to comply with ADEC's turbidity listing methodology and QAPP	Cindy	11/17
	Set up meeting mid-Jan with contractor	Missy	1/8
	See Chena River		
	Continue to work with Elodea Steering Committee on management plan	Chandra	9/13

Water/TMDL Schedule Date	Noyes Slough/June 30, 2010		
Listed Impairments/Potential Concerns	Petroleum Products (visual sheen in 2005, 2007), Sediment/Concern: Nutrients, Metals		
Current Strategy	TMDL for Oil and Grease (completed) Sediment (with turbidity used as a surrogate for Sediment): delisting 2014		

Water/TMDL Schedule Date	Noyes Slough/June 30, 2010		
ADEC/EPA Staff	Drew (Delisting), Chandra(TMDL)/Jayne (TMDL, SP12/Watershed Plan)		
Background/Problems /Comments	Sheen may be a combination of algae and petroleum or just petroleum; Potential concerns to be addressed after known problems are handled.		
Activity	09/08 – Missy is exploring the type of turbidity sampling that should be done and sent to the lab. Examining previous data. Tetrattech completing initial draft Chena River Watershed (that includes Chena Slough) SP12 information report. Conference call scheduled on 10/20 to discuss report.		
	10/08 Conference call held; reviewed report. Need to re-evaluate petroleum data using petroleum numeric stds based on TAH/TAQH. Exploring TMDL development for oil and grease including how to measure TMDL compliance. See action on turbidity; deal with concerns after impairment issues.		
	11/08 Meeting on Brownsfield; sediment sampling being conducted this winter. Submitted contractor request.		
	12/08 – Contract approved; budget and schedule being worked out		
	4/09 – Unable to do spring sampling		
	7/09 Sediment sampling continues; petroleum show a TMDL will likely be needed.		
	12/09 Contractor assistance approved by EPA for TMDL work		
	4/10 – Need report on summer activities.		
	1/11 Reviewed draft TMDL; TMDL scheduled for FY12; Suspect we may have a grantee for resampling		
	6/11 TMDL drafted and received stakeholder review. Comments incorporated; preparing to brief Division Director before public notice.		
	10/11- Submitted final TMDL for petroleum; See also Chena River		
	4/12 – Final TMDL approved for petroleum sheens; Also see Chena River		
	10/12 See Chena River		
	New MS4 permit will require sheen monitoring		
Action Items	Request contractor support for development of turbidity monitoring strategy to comply with ADEC's turbidity listing methodology and QAPP, possible TMDL for Oil & Grease	Cindy	11/17
	Set up meeting mid-Jan with contractor	Missy	1/8
	See Chena River		
	Jayne will talk to Jessica to see if sufficient information to do preliminary draft TMDL for petroleum and sediment-report back to group.	Jayne	Completed
	Cindy to notify Jayne when to direct contractor to develop draft TMDL	Cindy	
	Set up conference call with TT to set up next steps	Jayne	Nov
	Provide paragraph on monitoring to TT for incorporation; TT to provide stakeholder draft by Mar 1.	Chandra; Jessica	Feb; Mar

Water/TMDL Schedule Date	Slate Creek/June 2011
Listed Impairments/Potential Concerns	Metals-antimony; delisting turbidity
Current Strategy	4b or delist
ADEC/EPA Staff	Chandra/Jill
Background/Problems /Comments	NPS funded a USGS study to evaluate water quality of stream draining in abandoned or reclaimed lands. Park Service requested funding on restoration on Slate Creek. EPA R10, NPS and ADEC working together to monitor, gather data and develop 4b demonstration. Monitoring plan expected in the fall.
Activity	9/08 Monitoring Plan expected in the fall
	3/30 – Conference call held 4/20; NPS doing QAPP; NPS with dates and need for support.
	5/09 – Waiting for QAPP date from Guy (requested update 6/09)
	8/09 – Site visit schedule for Sept. 9 th with Brabets; and Guy to discuss QAPP and sampling plans
	9/09 Site visit; reviewed QAPP (Missy); Slate likely to remain about the same; NPS has complete plans for reclamation; QAPP very basic.
	4/10 Missy spoke with Tim Brabets on 4/13/10 and he believes he can easily address all of DEC's comments. He will send them to me as soon as he has completed the updates. No ETA was provided by Tim but it did sound like I should receive it in a few weeks. NPS would like to know if DEC or EPA have any additional requirements beyond the QAPP, so if you know of any, please identify them at this time.
	Parks Service will send draft QAPP for ADEC approval late July. Results from sampling in the fall.
	10/10 – Brock spoke with Tim Brabets and received WA data from past couple of seasons. Work is progressing and long term monitoring is happening. Likely to be able to work on 4b shortly.
	1/11- NPS supplied preliminary data and is currently working on a final report for restoration work completed during 2010 field season. Will be able to complete a delisting and SP12 (WQ10 too?) similar to Caribou Creek once this report is submitted to ADEC. (March/April)
	01/11 – Chandra spoke with Guy Adema of NPS. They plan to finish the QAPP by the end of winter. Monitoring is set up for this summer season and restoration work is complete.
	6/11 – Chandra is waiting for QAPP update from Guy. Update requested 4/11 and 5/11.
	10/11 – Conducted site visit with NPS. Reviewed data; data analysis shows delisting of turbidity and listing of metals.
	4/12 – Proposing changing impairment listing – delisting turbidity and listing for antimony (based on USGS and UAF data); working with NPS on continued

Water/TMDL Schedule Date	Slate Creek/June 2011		
	monitoring of restoration work		
	10/12 – No site visit because of high winds and storms in the area. Continue working with NPS on status of restoration and water quality. No additional funding for USGS monitoring. Do not have water quality report yet. 2012 Draft IR proposed changing impairment status.		
	<u>1/13 – NPS has put in a funding request to do additional work. Outcome unknown.</u>		
Action Items	Check to see if NPS has drafted an initial monitoring plan and set up conference call.	Missy	3/09
	Missy to send note to Jayne with list of who should be on the call. Given the lack of response, it might be better for Jayne to send invite?	Missy	3/09
	Missy to provide NPS with example QAPP (i.e., Nakwasina report, Chena QAPP)	Missy	done
	Missy to see if she can get update from NPS in August	Missy	8/09
	Missy/Richard to review QAPP and data	Missy	Winter 2009
	Conduct data analysis and approve QAPP	Richard	Winter 2010
	Review QAPP and give to Richard for approval	Chandra	Summer 2012

Water/TMDL Schedule Date	Goldstream/June 2012		
Listed Impairments/Potential Concerns	Turbidity		
Current Strategy	TMDL or Delist		
ADEC/EPA Staff	Chandra/Jill		
Background/Problems /Comments	Due to high water, 2008 sampling could not occur as scheduled. No field action until next summer.		
Activity	9/08 Need to make sure that QAPP and monitoring plan aligns with turbidity listing methodology including reference site monitoring.		
	10/08		
	11/08 Submitted contractor request. All mining applications have been processed. FY09 applications are being processed (Missy to hold until contractor award decision).		
	12/08 – contract approved; Jayne sent RFP to contractors		
	1/09 Permit effective date in EPA hands; Reviewed proposals. TT chosen		

Water/TMDL Schedule Date	Goldstream/June 2012
	4/20 Received draft QAPP;
	5, 6 & 7/09 – TT still researching background location; Possible site locations evaluated; DEC QA officer comments submitted to TT
	8/09 Site visit schedule for EPA on 9/2/09
	9/09 Site visit; conference call on Friday – QAPP should be able to be finished up
	12/09 QAPP finalized; drafted for ACWA solicitation; preparing work plan for DEC to do.
	7/10 – Grant awarded. Equipment installed. Landowner requests for DEC lead sites started (only 1 of DEC's access point responsibilities needs a permit. Should be completed on-time). Grant recipient collecting turbidity data this summer.
	10/10 – Grantee collected data from the summer. Having some issues with the dataloggers due to questions about installation (August data). We have grab sampling to augment much of the data issues from several locations as well as ISCO samples that are being processed. Have developed a co-project with ADF&G to get flow data and establish a rating curve. Will assess the validity of the data as well as the sampling locations over the winter and make adjustments as necessary.
	1/11 – ACWA grant requests second year of monitoring. Likely get a grantee. Preliminary data points to permit violation may be source of impairment. Sampling plan is being re-evaluated to help determine overall health.
	01/11 Chandra visited three of the Goldstream sites with Zach Tripp of Water Walkers and two UAF students who worked on the project over the summer.
	4/11 – Waterwalkers (Zach and Brittany Tripp) visited Fairbanks for initial equipment installation, site survey, and training with Chandra and UAF student staff.
	5/11 – Collaborated with DF&G for installation of equipment and training of UAF student staff.
	6/11- Field work resumes; grant being awarded for FY12 year of data collection.
	9/11 – Meeting on revising the QAPP with Richard and UAF. Waiting for revisions (expected by end of Oct)
	10/11 – Data collection on-going. Draft report expected Jan 2012.
	4/12 – TMDL kick off meeting. Data collection on-going; data QA/QC being conducted.
	10/12 – Data collection and subsequent compliance site visit demonstrated water quality standards are now being met. DEC plans on continuing data collection in the summer of 2013. TMDL development should be postponed.
	1/13- Analyzing data collected. Preliminary analysis shows that 2012 turbidity values

Water/TMDL Schedule Date	Goldstream/June 2012		
	are lower than 2010 and 2011. Planning to continue monitoring next summer.		
	<u>5/13 – Arranging for deployment of equipment in June.</u>		
Action Items	9/08 – No field action until next summer. Review the Goldstream section in the draft "Updated Assessment of Northern Waters" (July 2008) to determine the status of waters. Set up meeting in October to develop a plan for addressing data gaps needed to move forward.	Missy	
	10/08 - Request contractor support for development of turbidity monitoring strategy to comply with ADEC's turbidity listing methodology and QAPP	Cindy	11/17
	12/08 Cindy to check on effective date of MSGP	Cindy	12/30
	1/09 Missy to send current information to TT. Copy EPA.	Missy	done
	4/09 Missy to set up conference call to discuss QAPP comments with TT and EPA; Call to happen by 5/15; EPA to supply MSGP data to TT.	Missy	5/15
	7/09 Jill to inquire for other help at TT		
	10/10 Discussion as to whether any help is needed from TT to analyze data.	Jayne	Done (no help needed at this time)
	Tentative conference call for TMDL development after draft report	Jayne	

Water/TMDL Schedule Date	Crooked Creek Watershed/ June 2014		
Listed Impairments/Potential Concerns	Turbidity		
Current Strategy	TMDL		
ADEC/EPA Staff	Chandra/Jill		
Background/Problems /Comments	Turbidity		
Activity	Summer 2007: Missy joined BLM staff to review operations along Crooked Creek (numerous impaired creeks) including reclamation projects and annual BLM inspections. Conducted general visual assessment and monitoring/sampling on turbidity, pH, temperature, DO to determine access points and areas of concern. Discussed importance of measuring turbidity during storm events with BLM.		
	Summer 2008: Sampling could not occur due to high water		
	11/08 Submitted contractor request;		
	12/08 Contract approved; Jayne sent RFP to contractors		

	1/09 Reviewed contractor proposals – selected TT. Effectiveness project complete. Data loggers were planned to be used but due to the flooding they were not deployed. General water quality data was collected via a YSI meter. BLM does plan to deploy the turbidimeters in Summer of 09 and Missy will be working with BLM to develop an MOU so DEC can assist in the water quality data collection. Currently BLM has a contract out for the next phase of the reclamation work.
	6/09 – Draft QAPP reviewed.
	7/10 – ADEC grant awarded for site reconnaissance.
	10/10 –Grantee from UAF went to Crooked Creek drainage with DNR staff to assess potential site locations. Brock is reviewing the locations now and will discuss it at greater length with DNR over the winter to finalize potential locations and establish relationships with leases to protect the equipment once it is in place.
	1/11 – Finalized QAPP; ACWA grant request (likely have a grantee). Still need coordination with DNR. Likely to need equipment purchase.
	6/11 – Expecting final site location report in summer 2011. Sent request to EPA looking for funding mechanism to collaborate with Yukon River Intertribal Watershed Council
	10/11 – Ft. Yukon Tribe submitted grant request to FWS for water quality monitoring. Anticipated decision time: unknown (FFY12 budget)
	4/12 – Did not get USFWS grant. Evaluating other options for funding.
	10/12 – Internal discussion needed to develop sampling/strategy. BLM/DNR informed current miners monitoring would be happening.
	1/13 – Began mining outreach. DNR is distributing brochure. Additional funding source sought to help with monitoring costs. Fly overs scheduled for the spring.
	<u>5/13 – Mining outreach continues. No additional funding available.</u>

Action Items	9/08 Make sure that QAPP/monitoring plan aligns with turbidity listing methodology (includes reference site monitoring.) Review the Crooked Creek section of draft "Updated Assessment of Northern Waters" (July 2008) to determine the status of waters. Set up meeting in October to develop a plan for addressing data gaps needed to move forward. Find out status of Carl Kretsinger (fishery biologist with BLM)'s project proposal to conduct effectiveness monitoring on riparian habitat and water column (including turbidity) from reclamation projects on placer mines implemented 10 yrs ago on Harrison Creek. Data may be applicable to other waters. Harrison is a tributary to Birch.	Missy	10/20
	10/08 Request contractor support for QAPP and sampling program for 09	Cindy	11/17
	11/08 Still need to find out status	Missy	12/08
	12/08 Cindy to check on effective date of MSGP	Cindy	12/30
	12/09 On draft solicitation for ground- truth		
	1/09 Missy to start sending TT information. Copy to EPA. All info has been sent to TT		done
	5/09 TT provided draft QAPP for Crooked Creek on 5/21		
	Need to do site recon for sampling sites and for background streams – Set up conference call to discuss findings and finalize QAPP.	Brock	
	Feedback on Funding for council to apply for	Jill	
	Finish QAPP with final site selection.	Chandra	
	Jill to follow up on next steps for Funding by June 30th	Jill	

Water/TMDL Schedule	Kuskowkwim River/Red Devil Creek	
Listed Impairments/Potential Concerns	Antimony, Arsenic, Mercury	
Current Strategy	4b	
EPA/DEC Staff	Chandra/Martha & Jill	
Background/Problems/Comments	1000 feet of River near confluence of Red Devil Creek; .5 miles of Red Devil Creek	

Water/TMDL Schedule	Kuskowkwim River/Red Devil Creek	
Activity	1/11 -Site is currently going through discussions between C-Sites and BLM. A remedial investigation is due in the spring. BLM and EPA are discussing what elements are necessary.	
	3/11 and 6/11 – Chandra contacted DEC CS contact (Annemarie Palmieri) for update on upcoming public meetings (4/11). BLM is planning field work for 7/11. A remedial investigation report is scheduled to come out in winter 2011.	
Actions	Brock to let Jill know the EPA CERCLA contacts- Check with Chandra about the progress on this one.	Feb

South Central Waters

Water/TMDL Schedule Date	Matanuska River/June 2011
Listed Impairments/Potential Concerns	Residues
Current Strategy	Delist or TMDL: in 2014
ADEC/EPA Staff	Laura/Jill
Background/Problems /Comments	Alaska Railroad told the Corps that the current residues act as means to stabilize the banks. The Corps agreed and issued a letter of jurisdictional determination in May 2005. They are developing a solid waste management plan designed to prevent future waste and the top layers of debris that could wash away. Still waiting Alaska Railroad to send in the solid waste management plan.
Activity	3/09 Sent request to Solid Waste for plan; no response as of 5/18/09; Requested Program manager send note to Solid Waste
	7/09 Informal request to ARRC for solid waste management plan
	12/09 Jill and Laura discussed. Laura sent Jill the reports from 2004/2005 investigating the site. Jill is discussing with EPA counterparts in RCRA whether debris above OHW is subject to the water program

Water/TMDL Schedule Date	Matanuska River/June 2011		
	scope of responsibility.		
	<p>4/10 – Chickaloon Tribal Council applied for CIAP funds to implement debris removal plan designed by DEC in 2005. If awarded, the project would begin in 2011. Jill mentioned new grant on open dumping for tribes.</p> <p>7/10 Still seeking funds to conduct debris removal since failed to get grants.</p> <p>01/11 Included in FY12 ACWA grant solicitation with actions for debris removal and restoration as outlined in 2005 studies. No applications were received.</p>		
	<p>10/11 – Press inquiry. Workgroup meeting held; ARRC stated they would take the lead in re-establishing the workgroup. No progress to date.</p> <p>4/12 – Received letter from ARRC stating they believe no further action is needed. DEC responded we disagree. No further communication from ARRC.</p> <p>10/12- Matanuska River had flood event. Laura will do a site visit to determine if debris area was affected.</p>		
	1/13 – Debris not affected by floods. Debris removal actions included again in current ACWA grant solicitation. <u>No applications received</u>		
Action Items	9/08 – Review management plan and develop delisting rationale (low priority for other program)	Laura	When plan is submitted
	10/08 – Review and comment on Alaska's delisting rationale	Jill	When draft rationale is submitted
	04/09 Laura to talk to Jill about game plan to make sure EPA is ok with concept.	Laura	6/09
	Jill to set up call with Laura to possibly discuss	Jill	Sept.
	Martha to follow up with RCRA program about issue	Mart ha	Done
	Follow up with Fran Stefan about grant possibility. Give Angie at Chickaloon contact info.	Laura	Done

Water/TMDL Schedule Date	Cottonwood Creek/June 2012		
Listed Impairments/Potential Concerns	Impairment: fecal coliform		
Current Strategy	TMDL		
ADEC/EPA Staff	Laura/Jayne		
Background/Problems /Comments	<p>Since the foam is naturally occurring, ADEC is likely to delist. ADEC funded additional monitoring to make sure the bacteria impairments are not entirely natural (i.e., wildlife/geese) Recent WQ results indicate that the bacteria is most likely naturally occurring from waterfowl. Summer water temps in exceedance of WQS are naturally occurring as well. DEC will delist.</p>		
Activity			

Water/TMDL Schedule Date	Cottonwood Creek/June 2012		
	10/08 – High temp due to influence of large lakes.		
	06/09 Laura sent Jill key reports of data results for Cottonwood Creek		
	12/09 Foam delist listing bacteria – drafting scope to investigate		
	MST study underway		
	4/10 – Bacteriod project started. Should help define source.		
	1/11 Bacteriodes study showed human sources are part of the equation.		
	4/12 – Getting together with NRCS to see if there is a role for them.		
	10/12 – Results from stormwater quality study indicates meeting WQS for tested parameters but sediments have elevated levels of metals near stormwater outfall and runoff areas.		
	1/13 – Working with EPA and TetraTech on draft bacteria TMDL. Expect first draft end of January for review and comment.		
	5/13 Allowing time for Mat-Su Borough to public notice their Stormwater Management Plan including establishing a boundary that will likely translate into the MS4 permit boundary. This will allow calculation of a WLA in the TMDL. Draft TMDL will be received from TetraTech by May 14 and DEC will hold until fall 2013 for completion. Additionally, FY14 ACWA grant awarded for developing an on-site septic system cooperative in neighborhoods surrounding impaired section.		
Action Items	9/08 – Send monitoring results to EPA	Laura	Done
	Develop delisting rationale	Laura	Done
	Jill to set up call with Laura- week of Oct. 19th	Jill	Done

Water/TMDL Schedule Date	Cold Bay/June 2012		
Listed Impairments/Potential Concerns	Petroleum Products		
Current Strategy	TMDL or 4b or delist		
ADEC/EPA Staff	Tim/Martha		
Background/Problems /Comments	Petroleum impairment based on “seep” (oil mixed with water) along the bluff that is weeping out along 100-300 ft. of bluff. FUDS is source. Corps removed and treated all known contaminated soils > 10,000 ppm DRO that was < 15 ft below ground (approx. 8000 tons or 6000 ft ²). COE installed bioventing treatment system to treat soils at depth and less than 10,000 DRO above 15 BGS. Treating contaminated ground water using high volume extraction system; Sentinel wells still have DRO above standards. Funding is secure (6 yrs for bioventing). Determined that interception trend installation is not feasible.		
Activity	09/08 – Seep along bluff is now under control. Monitoring results show progress towards meeting standards.		
	10/08 – installation of inception trench not feasible due to limited space, tidal action, and winter ice.		
	11/08 continue to get monthly reports; free product still being recovered.		

Water/TMDL Schedule Date	Cold Bay/June 2012		
	03/09 Monthly reports continue to report free product recovery from upland source contributing to the petroleum impairment		
	6/09 Two free product surveys (in a row) which no free product was found in the 4 wells along the beach.		
	7/09 Contractor submitted maps showing a 50% reduction in the size of the beach seep		
	9/09 Making progress;		
	4/10 – Monthly progress reports continue to show removal of liquid and vapor phase petroleum hydrocarbon through groundwater pumping and soil vapor extraction remediation.		
	6/11 Monitoring continuing. Seep still shows, diminished but not cleaned up entirely.		
	9/12 CS Project Manager expecting a report in Dec that will include information of current size of the seeps 1/13 Spoke w/ CS PM. No free product found in the two beach monitoring wells since 2007 (MW9 & MW15). Latest MW sampling data results (2011) showed up to 13 mg/L DRO found in beach monitoring wells. The visible surface contamination has diminish significantly since 2007		
Action Items	Decide whether to proceed with delisting if Cold Bay likely to meet WQS in a reasonable time frame or whether to develop a 4b demonstration. Until decision is made, strategy is to remain on TMDL track.	Cindy	06/09
	NPS PM will arrange a meeting with CS PM to determine how many beach sampling events have occurred and if the impairment listing can be decreased or a 4b waterbody recovery plan can be created base on the reduction in hydrocarbon seep size and the continued restoration work	Tim	10/11

Water/TMDL Schedule Date	Hood/Spenard Lake/June 2012		
Listed Impairments/Potential Concerns	DO		
Current Strategy	Delist		
ADEC/EPA Staff	Shane/Jayne		
Background/Problems /Comments	Waterbody recovery plan initially called for diverting more glycol away from storm water system that drains into the 2 lakes and storm drains to Cook Inlet. Diversion construction postponed. Looking at implementing more BMP's that would reduce amount used or areas where applied. New project manager – Shane Serrano (Ted Stevens Airport); Monitoring conducted 2005 and 2006 show little DO improvements.		
Activity	10/08 No new information received. Making progress toward alternative deicing methods (perhaps infrared deicing facility).		

Water/TMDL Schedule Date	Hood/Spenard Lake/June 2012		
	11/08		
	12/08 Spoke with TSAIA staff on 12/4; Shane Serrano to send update (2008) DO and Ammonia water quality data; looking into sampling for fecal		
	3/09 - received 2008 WQ data for Lakes H & S. D.O. values still not meeting water quality standards. TSAIA has monthly meetings on how to deal with deicing effluent and products to try to reduce impacts on the two lakes		
	5/09 TSIA still working on glycol management plan. Currently looking into alternatives. WQ monitoring usually done in Aug/Sept. May get more WQ data from effluents as TSAIA leaseholders comply with MSGP. (no real change 6/09)		
	9/09 DO monitoring continuing twice/year; recent data showed mixed results.		
	10/10 - Airport will update the Waterbody Recovery Plan to include measures that should justify 4b listing.		
	6/11 Airport will be providing revised WBRP in July for review		
	10/11 – Revised WBRP submitted (note: did not contain all the elements required for a 4b). Sampling thus far is showing standards are being met but additional sampling is needed (especially earlier in the spring). 11/12- Airport provided QAPP and calibration log to confirm quality of data for potential delisting of the waterbody for dissolved oxygen.		
	5/13 – Some follow up with airport is still needed; anticipate being able to prepare a delisting document		
Action Items	9/08 – Find out monitoring results for 2007 and 2008.	Tim	12/08
	1/09 – Still awaiting data from Shane	Tim	2/09
	Data arrived but is incomplete, Tim will follow up with the Airport Project Manager	Tim	8/09
	Schedule mtg with new airport environ mgr	Shane	8/10
	Preparing delisting for fecal (on 4a);		Done
	Investigate as potential WQ10 and/or SP12 story for fecal- could possibly be SP12 although a small watershed	Jayne	Done
	Develop 4b justification. Possible full delisting waiting May/June 2012 sampling and results for support	Shane	May 12
	10/12 – Data shows should be delisted. Awaiting final QA'd data. Will prepare delisting document for 2014 report.		
	Shane/Drew to send Jill copy of monitoring plan and data collected to date.	Shane	Dec 11
	Delisting	Shane	June

Water/TMDL Schedule Date	Egegik River/June 2011		
Listed Impairments/Potential Concerns	Petroleum Products		

Water/TMDL Schedule Date	Egegik River/June 2011		
Current Strategy	4b or delist (since trench is working)		
ADEC/EPA Staff	Tim/Martha		
Background/Problems /Comments	Source is from dock area. Woodbine Alaska Fish Company is located at river's mouth and is responsible for the sheening on Egegik River.		
Activity	09/08 – Restoration work on-going. Company installed an interceptor trench last summer to capture free product on the water table and smear zone.		
	10/08 Have not received report from CS		
	11/08		
	12/08 Spoke with Todd Blessing, SPAR Project Manager. RP hasn't submitted the fall report on the interception trench		
	1/09 Report has not yet been delivered to SPAR.		
	3/09 – Report received (3/5) under review		
	5/09 Awaiting info from SPAR as to report results (folks not available)		
	7/09 - Occasional sheens still report during tides fluctuations. Interception trench installed landward of the seawall is functioning as planned. Peisometers still show detectable levels on TAH/TAqH		
	9/09 Sheens less frequent but still happening.		
	4/10 Icicle Seafoods is planning on operating the interception trench at the intertidal area and continuing to treat contaminated soil at the landfarm area. This summer BGES will be collecting groundwater samples from all wells and piezometers.		
	6/11- Since installation not finding any sheens. Making progress, but still some TAH/TAqH in pore water.		
	9/12 CS Project Manager expecting an annual report in Dec/12. Interception trench still active. No sheens reported on beach- RP is creating a photographic record on no sheening		
	5/13 No new information. Interception trench is functioning as designed, No sheening being reported		
Action Items	9/08 Obtain report on trench installation and quantity of product recovered. Report due in the December	Tim	Fall

Water/TMDL Schedule Date	Popof Strait/June 2012		
Listed Impairments/Potential Concerns	Residue (seafood)		
Current Strategy	TMDL		
ADEC/EPA Staff	Laura/Martha		
Background/Problems /Comments			
Activity	09/08		

Water/TMDL Schedule Date	Popof Strait/June 2012		
	10/08 No recent inspections		
	8/09 Inspection conducted – in compliance with permit (extended) conditions; dive survey needed to evaluate impairment status. Received copy of APDES inspection report.		
	4/10 Permit is currently under development using contract resources. Among the outstanding issues is the waste piles and whether sufficient reduction has been made or further controls needed. Permit will require some sort of seafloor survey to determine extent of deposits – details still to be worked out.		
	10/12 information from permit folks transmitted during call includes a Remediation Plan from Trident Seafoods.		
	<u>1/13 – no new information;</u>		
Action Items	9/08 – Check with Katy for any updates	Laura	Fall
	5/09 Check with Katy about any inspection plans this summer (2009)	Laura	
	6/09 Inspection scheduled for this summer by compliance		
	Find out tentative permit schedule (sent request internal – no response to date)	Laura	9/09
	Dive surveys completed. Requested copies of reports from Permits Unit	Laura	completed
	Received dive survey report. Shows waste pile grown since last survey. Permits group determining next steps.	Laura	Fall 2011
	Follow up on Permit status	Laura	Fall 2011
	Laura to send remediation plan	Laura	June 13

Water/TMDL Schedule Date	Red Lake/Anton Ponds 2012		
Listed Impairments/Potential Concerns	Metals		
Current Strategy	4b or TMDL		
ADEC/EPA Staff	Shane/Martha		
Background/Problems /Comments	Contaminated sites has approved closure/clean-up plan of landfill. Is the landfill a source of the toxic metals? GW coming into landfill is higher than metals leaving landfill.		
Activity	09/08 –		
	10/08 New info on Red Lakes		
	12/08 No new info		
	3/09 Meeting with Navy contractor; received information on nearby lake data – under review		
	8/09 Reports still need review		
	9/09 Water column meeting standards – sediment still high (question as to		

Water/TMDL Schedule Date	Red Lake/Anton Ponds 2012		
	whether it is similar); still data gaps.		
	7/10 Sampling plan received in June. Waiting for results.		
	10/10 Awaiting sampling results from USCG		
	1/11 – Have draft results; awaiting final		
	5/11 Reviewed results; does not merit delisting. Will need TMDL or 4b based upon dialogue with USCG.		
	2/12 – Beginning work on TMDL, provided all available info to EPA Contractor		
	1/13 – Preparing fact sheet and draft TMDL for stakeholder review.		
	5/13 – Public notice period closes 5/13. Preparing response to comments.		
Action Items	10/08 Cindy to brainstorm with Tim for potential contract project under \$5K work	Cindy	11/17
	3/9/09 Stevens to meet with CS project manager and US Navy to discuss what work needs to be done at the former Naval landfill adjacent to lake before site close out can be finalized.		
	Find out sampling results	Tim	

Southeast Waters

Water/TMDL Schedule	Coffman Cove Creeks	
Listed Impairments/Potential Concerns	5 creeks impairments from Cadmium, Copper, Iron, Managnese, Nickel and Zinc	
Current Strategy	4b (TBD until more WQ data received at the end of summer) or delist	
DEC/EPA Staff	Gretchen/Martha & Jill	
Background/Problems/Comments	Drainage from placement of fill for road construction	
Activity	10/10 - Template started. Had some help from EPA in designing format. Need USFS input once the fall data results are made public.	
	1/11 - USFS has a template for completing a 4b listing based on methodology supplied by the EPA. Results from winter (low	

Water/TMDL Schedule	Coffman Cove Creeks	
	flow) sampling event are expected by April. Will continue to work with USFS accordingly.	
	<p>6/11 USFS collecting data; last season's data showed improvement.</p> <p>10/11: DEC had contact with USFS. Consulting firm collected WQ samples and macro's over the summer. Report due at end of October. USFS expects all field work to be completed by end of October. May make the IR deadline if they complete assessment work on time</p> <p>4-12: DEC received the 2011 Summer Monitoring Report. This report covers the results of sampling conducted in August 2011. The report determines that four of the five stream are demonstrating close to total recovery; the fifth stream is well on its way to meeting all WQS. Monitoring will continue on all streams.</p> <p>10-12. DEC was informed that 2012 monitoring conducted under Federal Highways contract was to be released by 11/12. Project is being managed as a CERCLA site by USFS/Western Highways /USFS with minimal input from DEC.</p> <p>1.13 – Mixed progress, overall positive trend. Good fish returns. Expect additional report in the spring</p>	
	<p><u>5/13 – Conducting data review.</u></p> <p>Continued coordination with USFS and Western Highways; August sampling event scheduled; September 25 meeting to discuss analytical data and future project direction.</p>	

Water/TMDL Schedule	Coffman Cove Creeks	
Actions	Continue to monitor progress	

Water/TMDL Schedule	Salt Chuck Bay	
Listed Impairments/Potential Concerns	Copper	
Current Strategy	4b	
EPA/DEC Staff	Gretchen/Jill & Martha	
Background/Problems/Comments	CERCLA Site – copper concentrations exceed WQS in water column and intertidal zone about state guidelines.	
Activity	10/10 - Is now a full blown CERCLA project and in the process of being remediated. Contract was just awarded last month. Not worth acting on till they get started and develop the Record of Decision and begin work.	
	6/11 – CERCLA project on going. Removing material from uplands.	
	10/11 Jacques Gusmano is the EPA remedial project manager for the site. EPA will be working on wetlands and tideland sampling while USFS works on uplands. No plan for remediation of tidelands at this point. Feasibility study is next; clean up in 2015-2016. 04/12- No change. EPA/USFS continue to develop remediation plan. Field work will take place in summer 2012.	

Water/TMDL Schedule	Salt Chuck Bay	
	10/12- No change	
Actions	<p>1/11- Find out EPA CERCLA SITE lead.</p> <p>Nothing until EPA/USFS determine the extent of remediation</p> <p>Jill to follow up with EPA site manager</p> <p><u>1/13 –Martha should follow up with EPA site manager to make sure water quality standards are addressed.</u></p>	Brock to resend

Water/TMDL Schedule Date	Katlian River/June 2012		
Listed Impairments/Potential Concerns	Sediment, Turbidity		
Current Strategy	4b or delisting		
ADEC/EPA Staff	Drew/Jill		
Background/Problems /Comments			
Activity	09/08 – Depending on results from Nakwasina, may use same approach		
	10/10 - Arranged to meet with USFS about developing the same approach with this waterbody as Nakwasina. Will take place in late Oct-Early Nov.		
	1/11 -USFS has been contacted regarding this. Currently looking at budget to determine what actions they will take in 2011		
	6/11 USFS not set a date for monitoring (that would mimic what they did on Nakwasina.		
	<p>10/11 No change. USFS has no immediate plan to monitor</p> <p>04/12 No change. USFS has no immediate plan to monitor</p> <p>10/12 No change. USFS has no immediate plan to monitor</p>		
Action Items			

OTHER IMPORTANT WATERS

Water/TMDL	Kenai River
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Schedule Date			
Listed Impairments/Potential Concerns	Petroleum (listed)/ turbidity (under investigation)		
Current Strategy	Delist in 2010		
ADEC/EPA Staff	Tim/Jill (Jayne for WQ10 Story)		
Background/Problems /Comments	High density of boats in small areas caused problems.		
Activity	09/08 –Conducted extensive monitoring July 07, 08 and levels were down significantly from 2003 sampling. Regulations putting limit/ban on 2 stroke engines are in effect.		
	12/08 DEC submitted comments to contractor on Draft 2008 Hydrocarbon sampling report – Final report due 12/31		
	1/09 Final report received and distributed to key stakeholders		
	3/09 EPA tentatively approved sampling plan for WQ monitoring this July. Will be developing SOW for WQ monitoring and boat counts		
	1/09 Final report from OASIS the end of January.		
	4/09 RFP for assistance for next year issued. Boat contract awarded;		
	5/09 All contracts for sampling awarded; meeting with habitat committee to discuss turbidity sampling program		
	8/09 Initial look at non-QC'd data is that it looks like water quality standards are being met.		
	12/09 Comments on draft report provided; Delisting ☺		
	4/10 – Draft final report delisting justification.		
	1/11 – Category 2 for petroleum; evaluating turbidity data.		
	9/12 Preliminary results from July 2012 hydrocarbon sampling indicated river continues to meet SWQ petroleum hydrocarbon standard		
	9/12 Peer reviewed turbidity report delivered on 6/29/12. DEC review found errors in background calculations. Contractor asked to submit addendum to the report.		
	12/12 DEC upper management met with EPA to discuss Kenai River turbidity concern. EPA requested and received turbidity data collected by Kenai Watershed Forum from 2008-2010		
	1/13 Still accessing turbidity report. Intent is to draft a listing decision document in Feb/March 2013		
	5/13 evaluating data collected at RM 13.3 to see how comparative it is to data collected at the background location at RM 23. With the idea of using it as background location closer to the impacted site (Michelle's request)		
Action Items	9/08 – Target success story WQ 10 for petroleum	Jayne	7/09
	7/09 Conduct 2 nd year of HC sampling in an effort to delist water for petroleum hydrocarbon impairment		

Water/TMDL Schedule Date	Exxon Valdez Beaches
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Listed Impairments/Potential Concerns	Petroleum		
Current Strategy	Keep on 4b		
ADEC/EPA Staff	Drew/Jill		
Background/Problems /Comments			
Activity	<p>3/09 Council RFP includes projects to further reduce marine pollution into the environment. Notes chronic marine pollution is as important impact as large-scale spills.</p> <p>Factors Limiting Degradation: Field work conducted including placement of sensors on oiled and cleaned beaches to collect long-term data which will help explain winter sub surface condition. Final report due 4/15/10</p> <p>Biodegradability of Lingering Oil – study conducted by EPA funded (additional study not listed in our 4b write up)</p> <p>Assessment of distribution – data analysis still occurring; Final report expected 9/09</p>		
	9/09 Checked – reports still not available on EVOS web site		
	10/09 – reports still not available on EVOS site		
	<p>11/10 – the “Distribution of Subsurface Oil from the Exxon Valdez Oil Spill” final report is posted on the EVOS web site. This work sought to develop a suite of geospatial models to identify potential areas where subsurface oil is still present on the shorelines of PWS and GOA affected by the Exxon Valdez oil spill as of 2007. It was important to be able to quantify the relative amount of subsurface oil so that the models could be used as screening tools to prioritize shorelines for different remediation methods. Evaluating the information to see if effected area needs adjustment.</p>		
	10/11- Evalating findings; Impaired area likely to shift based on new information.		
	<u>1/13 – sent revised 4b to EPA</u>		
Action Items	Check Reports on EVOS site	Information has been provided to EPA.	
	Let Jill know of timeframe/timeline for prioritizing shorelines for different remediation methods.	Drew	
	<p>5/ 12: Brock reviewed numerous EVOS reports and provided an updated Cat. 4b to EPA for review: awaiting feedback</p> <p>10/12 DEC internal review of 4b document is ongoing.</p>		

Water/TMDL	Birch Creek
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Schedule Date			
Listed Impairments/Potential Concerns	Turbidity		
Current Strategy	Currently in 4a; determine progress toward s meeting WQS		
ADEC/EPA Staff	Brock/Jill		
Background/Problems /Comments			
Activity	3/09 – BLM is working with DEC to develop a QAPP to gather sampling info to be able to move to category 2. See also Crooked as Harrison is a tributary to Birch.		
	9/09 No change on status for 2010 IR. Some data still has to be analyzed. Meeting tentative schedule for Nov. to review QAPP		
	7/10: QAPP comments given to BMP. Sampling underway.		
	10/10 - BLM was doing work on this over the summer. I gave them a QAPP and a couple questions that needed to be addressed but haven't heard since June.		
	3/11 – Chandra contacted BLM (Ben Kennedy). They have not made progress on the QAPP, but are planning to have an intern complete it over the summer. Ben is working out of state until 6/11.		
	10/11 still working with BLM to get QAPP finalized; some compliance issues this summer		
Action Items	Missy to check status of QAPP and report back	Missy	August
	Cindy to follow up with Richard on status of QAPP		
	Tabor to follow up with BLM in the coming months regarding status. BLM has been very slow in returning correspondence. –Check with Chandra		
	5/12 BLM continues to collect data on waterbody. A report is expected in the near future per Ben Kennedy		

Water/TMDL Schedule Date	Granite Creek		
Listed Impairments/Potential Concerns	Turbidity		
Current Strategy	Currently in 4a; determine progress toward s meeting WQS		
DEC/EPA Staff	Gretchen/Jill		
Background/Problems /Comments			

Activity	Still in the making progress section; although meeting annual load, not monthly and not meeting WQS (currently has 1 annual target – may need to revisit the target).		
	6/11 – Sent delisting to Jill for review		
	10/11 – Discussion with EPA. Additional data requested. Unlikely to get resolved by 2012 deadline		
Action Items	Data need for delisting; send to Jill and then set up discussion with Jill; Laura sent Jill several key documents and data for Granite Creek 06/09 and will send new information received as deliverables for FY09 project. Jill and Laura to discuss next steps after Jill has reviewed the information.		
	EPA to explore for regional measure on making progress towards meeting WQS (SP12).		
	Internal meeting scheduled for the end of the October 2010. Will meet with CBS and potentially EPA during November 2010. Schedule conference call with Tetrtech and EPA.		
	Internal meeting scheduled for the end of the month. Will meet with CBS and potentially EPA following that (Nov)		
	Develop delisting package and send to Jill for review	Spring/Summer 2011	
	Feedback on Delisting	Jill	
	DEC waiting on feedback from Jill per email 10/3 and 10/19 call		
	<p>5-1-12: DEC is currently drafting documentation and public notice to re-open TMDL and adopt the 2011 loading equation (Est. July 2012)</p> <p>DEC plans to install dataloggers by 9/30 to continuously measure turbidity through 12/30/12.</p> <p>Brock to set up a meeting early June 2012</p> <p>10/12 DEC continues to work on the revision document. Field work was conducted in 9/12 to establish benchmarks for quantification purposes (stream gage replacement) prior to proposed installation of continuous monitoring equipment in 2013.</p>		
	5/13-SWPPP deliverable in May; bridge replacement work in next several months; potential for DEC November sampling pending completion of bridge work. EPA would		

	also like assurance that existing operators are in compliance.	
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Water/TMDL Schedule Date	Little Susitna (Unlisted)		
Listed Impairments/Potential Concerns	Petroleum Products/Turbidity		
Current Strategy	Unlisted		
ADEC/EPA Staff	Laura/Jill		
Background/Problems /Comments	Impacts from motorized watercraft		
Activity	6/11 FY11 report ungoing peer review and comment. Plan on briefing DNR/F&G counterparts on findings to date. Funded an FY12 ACWA grant to the Palmer Soil & Water Conservation District to conduct an education/outreach program to users of the LS on clean boating and fueling practices. Project begins July 1, 2011.		
	10/11 – Discussion with F&G and DNR on data findings.		
	4/12 – F&G submitted comments; continued discussions needed		
	10/12- data analysis continues for discussions with F&G and others. DNR land management plan for Susitna Flats is scheduled for updating. DEC will be part of planning team. Good avenue for addressing motor type and size, possible non-motorized days/river sections, etc. for protecting water quality and fish habitat.		
	<u>1/13 – DEC held meeting with EPA. Laura sent Jill requested data files. DEC met with managers from F&G and DNR to discuss data results and develop next steps. An upper level committee was established to continue the discussion and agency authorities for addressing the issue as needed.</u> DEC will have a cumulative data report completed by June 30, 2013 that combines the annual data collection efforts 2007-2012.		
Action Items	Need additional data.		

Water/TMDL Schedule Date	Cabin Creek		
Listed Impairments/Potential Concerns	Manganese, Arsenic, Iron, Copper & Cadmium		

Current Strategy	4b		
ADEC/EPA Staff	Drew		
Background/Problems /Comments	Historic Mining site		
Activity			
Action Items			